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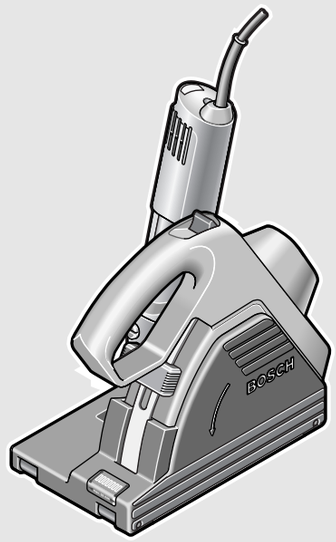

Robert Bosch GmbH
Power Tools Division
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www.bosch-pt.com

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GNF Professional

20 CA | 35 CA

BOSCH

de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet
el Πρωτότυπο οδηγιών χρήσης
tr Orijinal işletme talimatı

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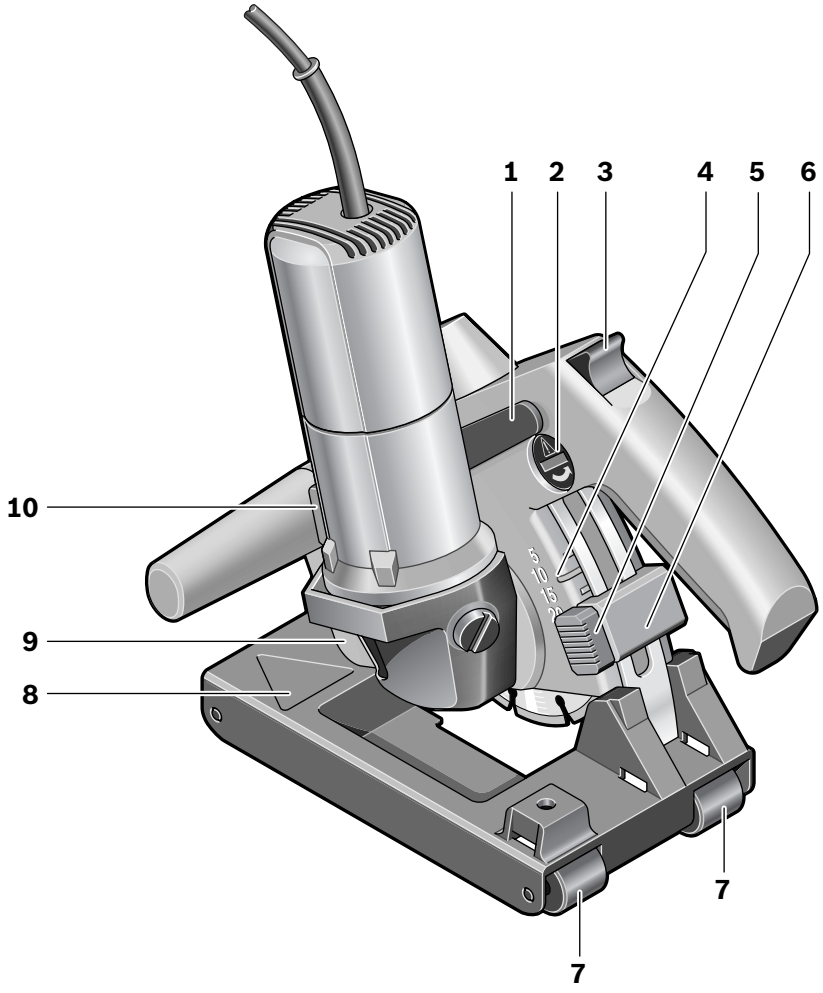

GNF 20 CA
Professional

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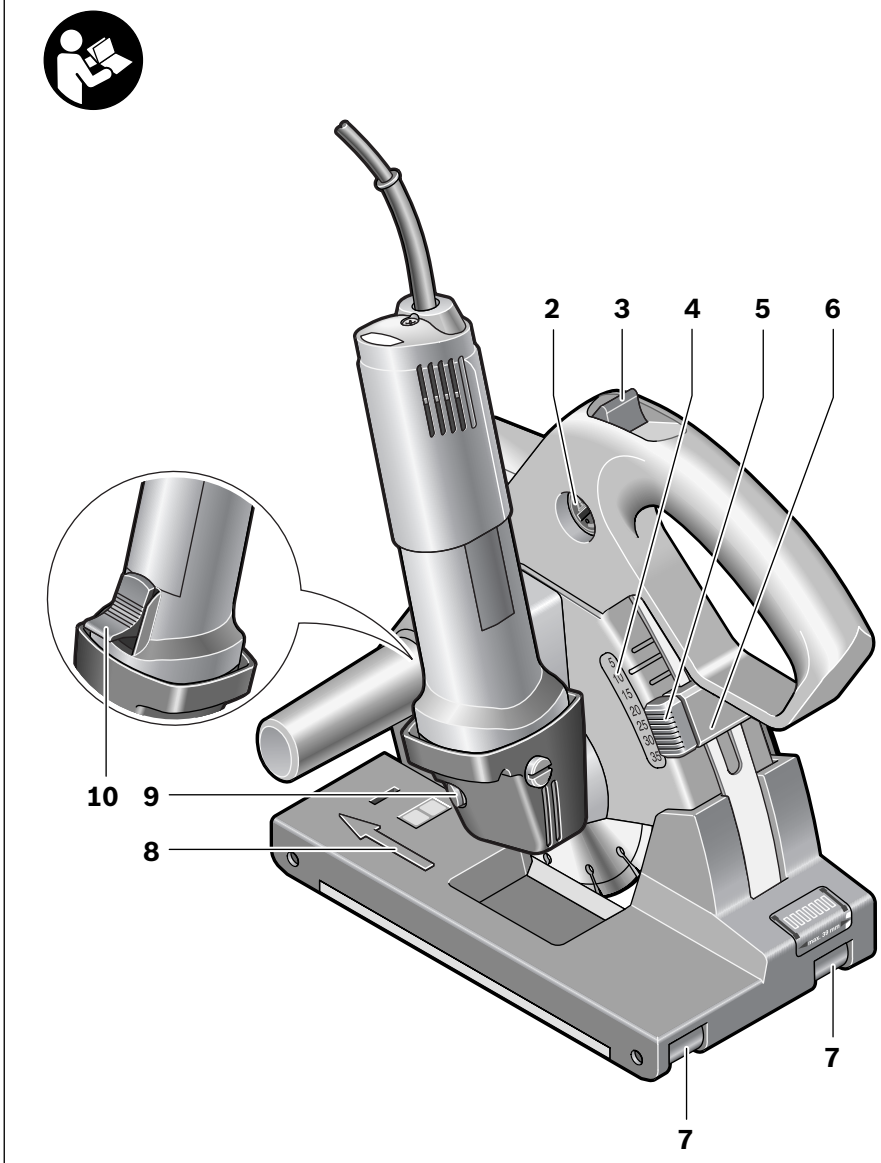

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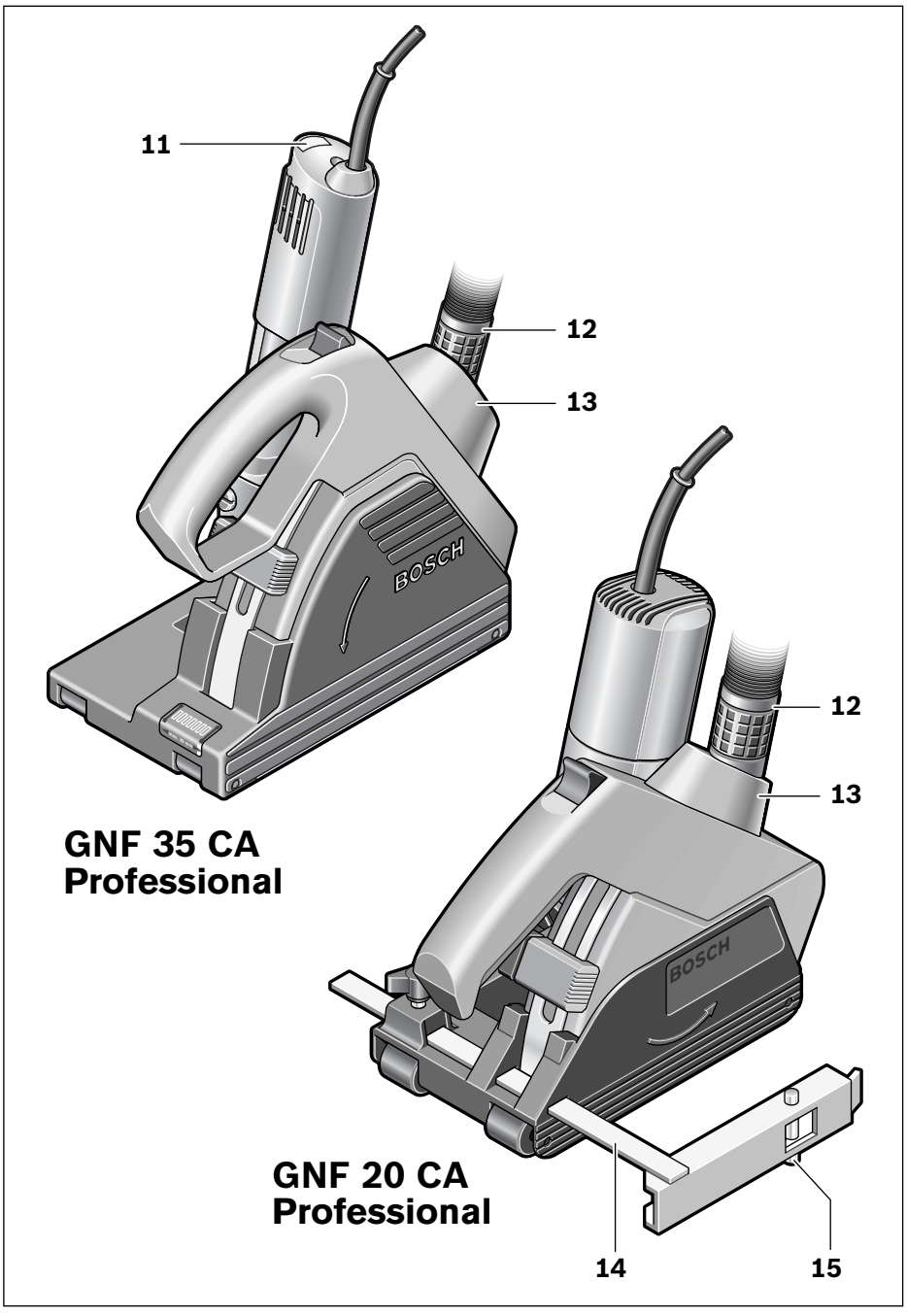

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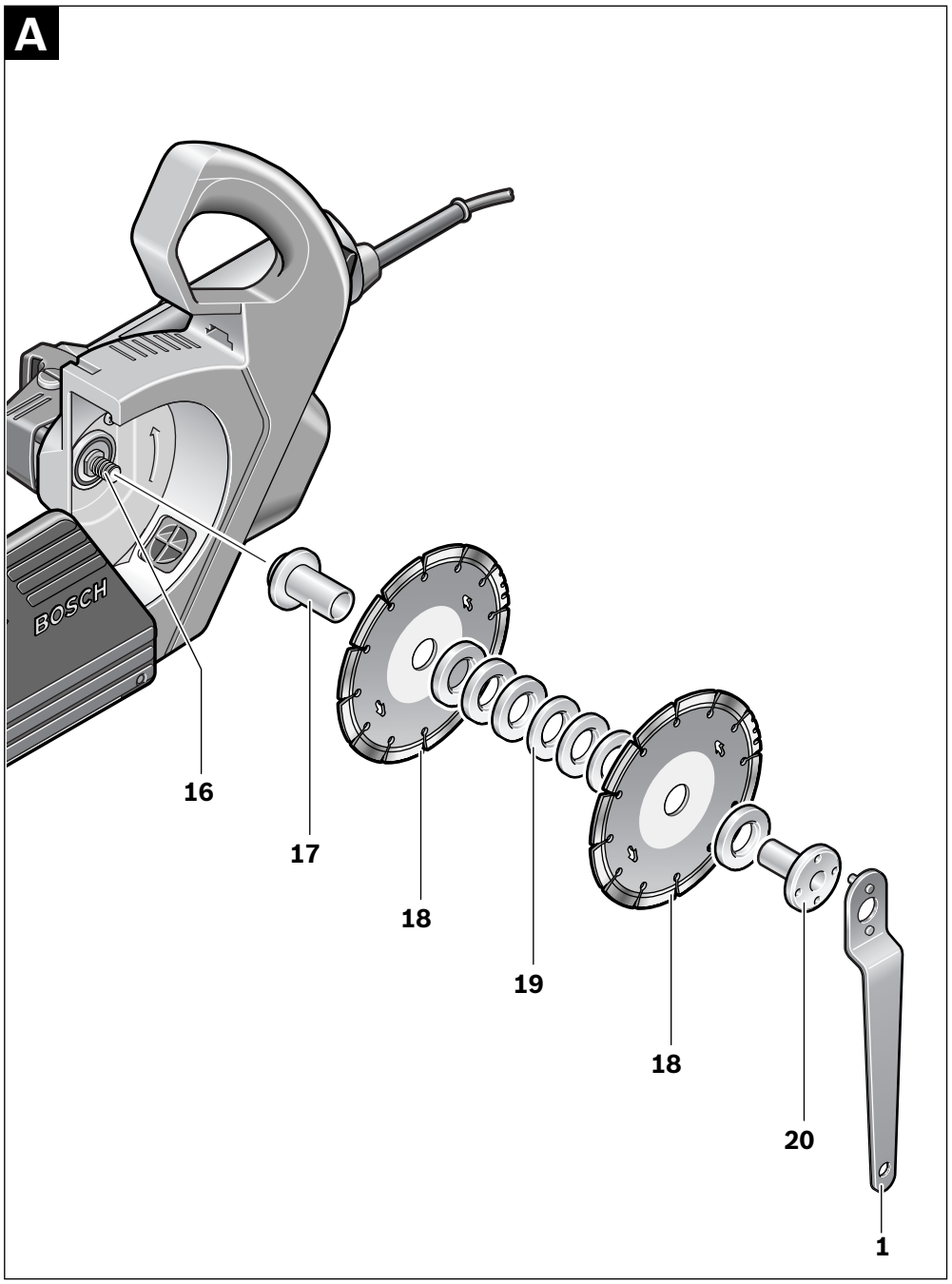

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General Power Tool Safety Warnings

⚠WARNING **Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

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g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Machine-specific Safety Warnings

Safety warnings for wall chasers

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

- **Always use guard provided with the tool. The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- **Use only diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

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- **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- **The arbour size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.
- **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- **Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- **Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a “live” wire will also make exposed metal parts of the power tool “live” and shock the operator.
- **Position the cord clear of the spinning accessory.** If you lose control of the power tool, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool’s air vents.** The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

Kickback and related warnings

- Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel’s rotation at the point of the binding.
- **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.

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- **Never place your hand near the rotating accessory.** The accessory may kickback over your hand.
- **Do not position your body in the area where the power tool will move if kickback occurs.** Kickback will propel the tool in the direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control over the power tool.
- **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion, otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

Additional safety warnings

Wear safety goggles.

- **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **When working stone, use dust extraction. The vacuum cleaner must be approved for the extraction of stone dust.** Using this equipment reduces dust-related hazards.
- **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

Functional Description

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

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Intended Use

In conjunction with a dust-category M vacuum cleaner and with firm support of the cutting guide, the machine is intended to cut or slot mainly mineral materials such as reinforced concrete, brickwork and road surfaces without the use of water.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

1 Two-pin spanner for clamping nut*
2 Release lock
3 Release button for the cutting unit
4 Cutting-depth scale
5 Button for depth stop adjustment
6 Depth stop
7 Chaser rollers
8 Working-direction arrow
9 Spindle lock button
10 On/Off switch
11 Service indicator (GNF 35 CA)
12 Vacuum hose*
13 Vacuum connection
14 Parallel guide (GNF 20 CA)*
15 Guide bolt for parallel guide (GNF 20 CA)*
16 Grinder spindle
17 Mounting flange
18 Diamond cutting disc*
19 Spacer discs
20 Clamping nut
21 Break-out tool*

***The accessories illustrated or described are not included as standard delivery.**

Technical Data

Wall Chaser		GNF 20 CA Professional	GNF 35 CA Professional
Article number		0 601 612 5..	0 601 621 7..
Rated power input	W	900	1400
Output power	W	520	750
No-load speed	rpm	9300	9300
Max. diameter for diamond cutting discs	mm	115	150
Mounting bore	mm	22.2	22.2
Slot depth	mm	0 – 20	0 – 35
Slot width	mm	7 – 23	7 – 39
Weight according to EPTA-Procedure 01/2003	kg	3.4	4.7
Protection class		⧈/II	⧈/II

The values given are valid for nominal voltages [U] of 230/240 V. For lower voltage and models for specific countries, these values can vary.

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

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Noise/Vibration Information

		GNF 20 CA Professional	GNF 35 CA Professional
Measured values determined according to EN 60745 (lime-sand brick).			
Typically the A-weighted noise levels of the product are:			
Sound pressure level	dB(A)	94	102
Sound power level	dB(A)	105	113
Uncertainty K=	dB	3	3
Wear hearing protection!			
Vibration total values (triax vector sum) determined according to EN 60745:			
Vibration emission value a_h	m/s^2	=4.0	=4.0
Uncertainty K	m/s^2	=1.5	=1.5

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.
The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.
An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.
Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Declaration of Conformity CE

We declare under our sole responsibility that the product described under “Technical Data” is in conformity with the following standards or standardization documents: EN 60745 according to the provisions of the directives 2004/108/EC, 98/37/EC (until Dec. 28, 2009), 2006/42/EC (from Dec. 29, 2009 on).

Technical file at:
Robert Bosch GmbH, PT/ESC,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider	Dr. Eckerhard Strötgen
Senior Vice President Engineering	Head of Product Certification

22.10.2007, Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen

Assembly

Dust extraction

- Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one’s health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.
  Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.
  – Use dust extraction whenever possible.
  – Provide for good ventilation of the working place.

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– It is recommended to wear a P2 filter-class respirator.

Observe the relevant regulations in your country for the materials to be worked.

The vacuum cleaner must be approved for the extraction of masonry dust. Bosch provides suitable vacuum cleaners.

The machine can be plugged directly into the receptacle of a Bosch all-purpose vacuum cleaner with remote starting control. The vacuum cleaner starts automatically when the machine is switched on.

Place a vacuum hose **12** (accessory) onto the vacuum connection **13**. Connect the vacuum hose **12** with a vacuum cleaner (accessory). An overview for the connection of various vacuum cleaners can be found at the end of these instructions.

Information for the Use of Wall Chasers

Please observe the following notes in order to reduce the dust emissions occurring while working.

– Use only the combinations of wall chaser and dust-category M vacuum cleaner recommended by Bosch. Other combinations can lead to insufficient dust collection and separation.
– Observe the operating instructions of the vacuum cleaner for maintenance and cleaning of the vacuum cleaner, including the filter. Empty dust collection containers immediately once full. Clean the filters of the vacuum cleaner regularly and always insert the filters completely into the vacuum cleaner.
– Only use vacuum hoses as intended for by Bosch. Do not manipulate the vacuum hose. When rocks or chunks of stone/masonry are drawn into the vacuum hose, cease work and clean the vacuum hose immediately. Prevent the vacuum hose from being bent or creased.
– Use the wall chaser only according to its intended use.
– Only use tools that are in perfect condition. Decrease in work progress is noticeable whilst using worn tools.
– Observe the general requirements for construction sites.
– Provide for good ventilation.
– Ensure that the working range/area is free of obstructions. For longer slots, the vacuum cleaner must be guided along in time, without obstructions in the path.
– Wear hearing protection, protective goggles, dust mask and gloves as required. As dust mask, use at least a particle-filtering class FFP 2 half-mask.
– Use a suitable vacuum cleaner for cleaning the workplace. Prevent settled dust from being swirled up by sweeping.

Mounting Diamond Cutting Discs

▶ **Before any work on the machine itself, pull the mains plug.**

▶ **When mounting and replacing diamond cutting discs, it is recommended to wear protective gloves.**

▶ **Diamond cutting discs become very hot during operation; do not touch them until they have cooled down.**

Swivelling Out the Cutting Unit

For a tool change, the cutting unit must be swivelled out completely. Place the machine on a firm surface. Turn the release lock **2** in anticlockwise direction, using e. g. the spanner end of the two-pin spanner **1**.

▶ **This releases the cutting unit and immediately swivels it upwards by means of resiliance.**

Dismounting the Clamping Assembly (see figure A)

Press the spindle lock button **9** to lock the grinding spindle.

▶ **Actuate the spindle lock button only when the grinder spindle is at a standstill.** Otherwise, the machine may become damaged.

Loosen the clamping nut **20** with the two-pin spanner **1** and unscrew the clamping nut **20**. Remove the spacer discs **19** and the mounting flange **17**.

Clean the grinder spindle **16** and all parts to be mounted.

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Determining the Slot Width

The slot width results from the amount of spacer discs **19** between the two diamond cutting discs **18** and the cutting width of the diamond cutting discs.

The slot width is calculated as follows:
Slot width = Thickness of the spacer discs + width of the diamond cutting discs.

The allowable slot width is shown in the section “Technical Data”.

The machine can be operated with one or two diamond cutting discs.

Mounting the Clamping Assembly (see figure A)

Set the mounting flange **17** onto the grinder spindle **16**. The mounting flange with its driving feature must be properly seated on the grinding spindle.

Place the diamond cutting disc **18** and the spacer discs **19** on the mounting flange **17**.

- **Regardless of the requested slot width, all spacer discs 19 provided must always be mounted.** Otherwise, the diamond cutting disc **18** can become loose during operation and lead to injuries.

Amount of required spacer discs:
GNF 20 CA: 5 pce., each 4 mm thick
GNF 35 CA: 3 pce., each 4 mm thick and 4 pce., each 6 mm thick.

At least one spacer disc **19** must be mounted between two diamond cutting discs **18**.

When mounting the diamond cutting discs, ensure that the direction-of-rotation arrows on the diamond cutting discs match with the rotation rotation direction of the machine (see direction-of-rotation arrow on the gear case).

Press the spindle lock button **9** to lock the grinding spindle.

Screw on the clamping nut **20** and tighten it with the two-pin spanner **1**.

Swivel the cutting unit back again. Check the locking system of the cutting unit by pulling the handle.

When working with 2 diamond cutting discs **18**, always replace them in pairs.

See graphics page for the mounting sequence.

Operation

Pre-selecting the Cutting Depth

- **The cutting depth may only be pre-selected when the machine is switched off.**

The requested cutting depth can be pre-selected with the depth stop **6**.

Press the button for depth stop adjustment **5** and push the depth stop **6** to the requested cutting depth on the cutting-depth scale **4**. Release button **5** again.

Ensure that the depth stop **6** is engaged again.

Starting Operation

- **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

Switching On and Off

- **Before starting the machine, check if the cutting unit has engaged in the upper position.** Otherwise the diamond cutting discs can touch the workpiece, resulting in possible loss of control over the power tool when switching on.

To **start** the power tool, push the On/Off switch **10** forwards.

To **lock** the On/Off switch **10**, press the On/Off switch **10** down at the front until it latches.

To **switch off** the power tool, release the On/Off switch **10** or, if it is locked, briefly push down the back of the On/Off switch **10** and then release it.

- **Check the diamond cutting discs before use. The diamond cutting disc(s) must be mounted properly and be able to rotate freely. Carry out a test run for at least 30 seconds without any load. Do not use diamond cutting discs that are damaged, out-of-balance, or vibrate.** Damaged diamond cutting discs can rupture and lead to injuries.

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Reduced starting current

The electronic reduced starting current limits the power consumption when switching the tool on and enables operation from a 13 ampere fuse.

Constant Electronic Control

Constant electronic control holds the speed constant at no-load and under load, and ensures uniform working performance.

Overload Protection

When overloaded, the motor comes to a stop. Relieve the load on the machine immediately and allow to cool down for approx. 30 seconds at the highest no-load speed.

Restarting Protection (GNF 35 CA)

The restarting protection feature prevents uncontrolled restarting of the machine after an interruption in the power supply.

To **restart the operation**, switch the On/Off switch **10** to the Off position and start the machine again.

Note: Check the function of the restarting protection feature regularly by having the mains plug pulled during operation and plugged in again afterwards.

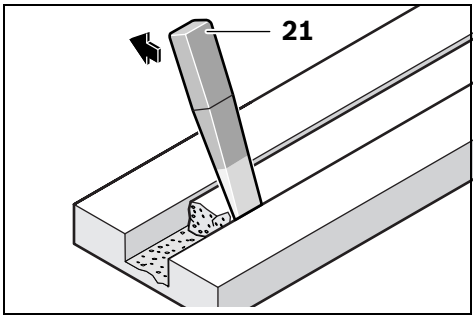
Working Advice

- ▶ **Exercise caution when cutting slots in structural walls; see Section “Information on Structures”.**
- ▶ **Do not strain the machine so heavily that it comes to a standstill.**
- ▶ **Clamp the workpiece if it does not remain stationary due to its own weight.**
- ▶ **The machine may only be used for dry cutting.**

– Adjust the cutting depth, see section “Pre-selecting the Cutting Depth”. To compensate inaccuracies that occur when breaking away the fin, the cutting depth must be set approx. 3 mm deeper than the requested slot depth.
– Place the machine with the chaser rollers **7** on the surface to be worked. The cutting unit must be in the uppermost position.
– Switch on the machine.
– Push the release button **3** upwards to release the cutting unit. Slowly lower and plunge the cutting unit into the material.
– Guide the machine with both handles, applying moderate feed, suited to the material being worked.
– The machine must always work in an up-grinding motion. Otherwise, the danger exists of it being pushed **uncontrolled** out of the cut. Guide the machine in the direction of the working-direction arrow **8**.
– The machine can be both pushed or pulled in the cutting direction. Vertical slots can easily be cut by pulling the machine from top to bottom.
– After finishing the working procedure, swivel the cutting unit out of the slot with the machine still running, until the cutting unit engages in the uppermost position.
– Switch the power tool off.

Do not brake coasting diamond cutting discs by applying sideward pressure.

- ▶ **Diamond cutting discs become very hot during operation; do not touch them until they have cooled down.**



Remove the remaining fin of the material with the break-out tool **21**.

Curved cuts are not possible, as the diamond cutting discs could jam in the material.

When cutting through plate materials, ensure that the materials are firmly backed on a surface or supported.

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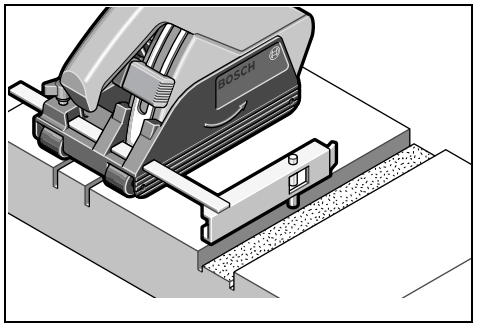
When breaking through walls, e. g. with a rotary hammer, most of the chipping-off of the surface material can be avoided by first cutting in a slot with maximum cutting depth.

For cutting expecially hard material, e. g., concrete with high pebble content, the diamond cutting disc can overheat and become damaged as a result. This is clearly indicated by circular sparking, rotating with the diamond cutting disc.
In this case, interrupt the cutting process and allow the diamond cutting disc to cool by running the machine for a short time at maximum speed with no load.

Noticeable decreasing work progress and circular sparking are indications of a diamond cutting disc that has become dull. Briefly cutting into abrasive material (e. g. lime-sand brick) can resharpen the disc again.

Parallel Guide (GNF 20 CA)



To cut additional parallel slots, press the guide bolt **15** of the parallel guide **14** down into the already cut slot and then carry out the cutting procedure.

Information on Structures

Slots in structural walls are subject to the Standard DIN 1053 Part 1, or country-specific regulations.
These regulations are to be observed under all circumstances. Before beginning work, consult the responsible structural engineer, architect or the construction supervisor.

The permitted slot depth and width depends on the slot length, wall thickness and the building material used.

Maintenance and Service

Maintenance and Cleaning

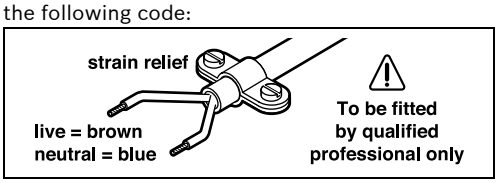
- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **For safe and proper working, always keep the machine and ventilation slots clean.**

After finishing work, dismount the clamping fixtures and clean all clamping parts as well as the protective cover.

Service Indicator 11 (GNF 35 CA)

When the carbon brushes are worn out, the machine switches itself off. This is indicated approx. 8 hours beforehand by the lighting or blinking of the service indicator **11**. The machine must then be sent to an after-sales service agent. Addresses are listed in the Section “After-sales service and customer assistance”.

WARNING! Important instructions for connecting a new 3-pin plug to the 2-wire cable.
The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.
Important: If for any reason the moulded plug is removed from the cable of this power tool, it must be disposed of safely.

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

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Spare Parts

GNF 20 CA

Mounting flange **17** 3 600 390 023
Spacer discs, 4 mm **19** 3 609 202 041
Clamping nut **20** 3 603 345 005

GNF 35 CA

Mounting flange **17** 3 609 202 039
Spacer discs, 4 mm **19** 3 609 202 041
Spacer discs, 6 mm **19** 3 609 202 042
Clamping nut **20** 3 609 202 040

After-sales service and customer assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:
www.bosch-pt.com
Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

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Disposal

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

Only for EC countries:

Do not dispose of power tools into household waste!
According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Subject to change without notice.